

Title (en)
MONOVINYL AROMATIC POLYMER COMPOSITIONS WITH A NOVEL COMBINATION OF STIFFNESS AND STRESS CRACK RESISTANCE

Title (de)
AROMATISCHE MONOVINYL-POLYMERZUSAMMENSETZUNGEN MIT EINER NEUEN KOMBINATION AUS STEIFHEIT UND BELASTUNGSBRUCHFESTIGKEIT

Title (fr)
COMPOSITIONS DE POLYMÈRE MONOVINYLIQUE AROMATIQUE PRÉSENTANT UNE NOUVELLE ASSOCIATION DE RIGIDITÉ ET DE RÉSISTANCE À LA FISSURATION SOUS CONTRAINTE

Publication
EP 2545118 A4 20131030 (EN)

Application
EP 11753777 A 20110218

Priority
• US 71907810 A 20100308
• US 2011025377 W 20110218

Abstract (en)
[origin: WO2011112341A1] A rubber modified polystyrene composition that includes the reaction product formed by polymerizing a monomer mixture containing at least 75 weight percent of one or more monovinylaromatic monomers in the presence of rubber particles to form a dispersion of rubber particles in a vinyl aromatic polymer. The dispersed rubber particles have an average particle diameter of from about 6 to about 10 microns. The composition has a gel content of from about 28% to about 36% by weigh. The composition has a swell index of less than 13 and contains no more than 2 wt.% of plasticizers. The present composition can be used as a refrigerator liner material. The liner material can be down gauged while maintaining desirable performance characteristics.

IPC 8 full level
C08F 279/02 (2006.01); **C08L 51/04** (2006.01); **F25D 23/06** (2006.01)

CPC (source: EP US)
C08F 279/02 (2013.01 - EP US)

Citation (search report)
• [XII] US 2002077425 A1 20020620 - KAWANO KOJI [JP], et al
• See references of WO 2011112341A1

Designated contracting state (EPC)
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